

ABSTRACT

In the case of drawing an oblique figure pattern, when drawing an oblique figure by using a slender rectangular beam, a problem occurs that edge roughness occurs at an oblique-side portion to deteriorate the drawing accuracy. The present invention solves the above problem and provides an electron-beam drawing apparatus and an electron-beam drawing method capable of accurately drawing even an oblique figure.

A first rectangular aperture and a second parallelogrammatic aperture are used and a variable parallelogrammatic electron beam formed by two apertures is used to draw a desired pattern on the surface of a sample. Moreover, oblique-side-portion-contour decomposition means is used to draw an oblique-side portion by a variable parallelogram and the inside of an oblique side by a triangle and a quadrangle (rectangle).